

Chrysler RAM PHEV Fleet - Phase 2

Number of vehicles: 24

Reporting period: November 2013 through May 2014

All Fleets

Date range of data received: 11/1/2013 to 5/31/2014

Number of vehicle days driven: 2851

All Trips Combined

Overall gasoline fuel economy (mpg)	20
Overall AC electrical energy consumption (AC Wh/mi) ¹	87
Overall DC electrical energy consumption (DC Wh/mi) ²	65
Overall DC electrical energy captured from regenerative braking (DC Wh/mi)	34
Total number of trips	13,752
Total distance traveled (mi)	177,323

Trips in Charge Depleting (CD) mode³

Gasoline fuel economy (mpg)	24
DC electrical energy consumption (DC Wh/mi) ⁴	200
Number of trips	5,109
Percent of trips city highway	86% 13%
Distance traveled (mi)	41,292
Percent of total distance traveled	23%

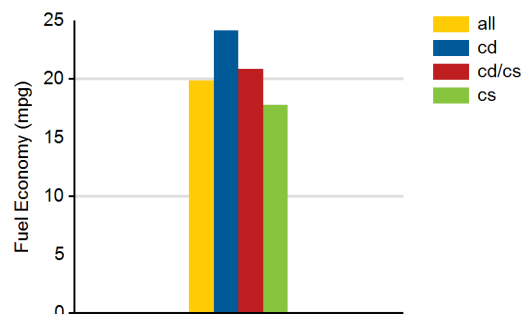
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

Gasoline fuel economy (mpg)	21
DC electrical energy consumption (DC Wh/mi) ⁶	67
Number of trips	2,217
Percent of trips city highway	68% 31%
Distance traveled CD CS (mi)	18,486 33,922
Percent of total distance traveled CD CS	10% 19%

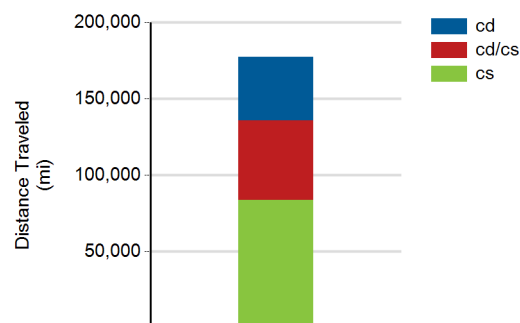
Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	18
Number of trips	6,426
Percent of trips city highway	83% 16%
Distance traveled (mi)	83,671
Percent of total distance traveled	47%

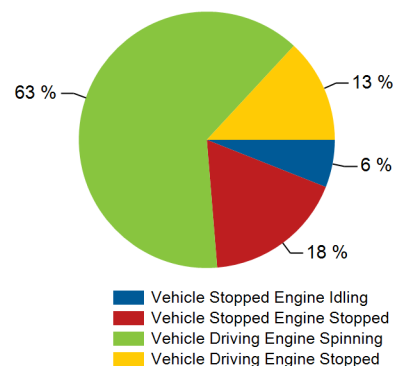
Gasoline Fuel Economy By Trip Type



Distance Traveled By Trip Type



Percent of Drive Time by Operating Mode



Notes: 1 - 9. Please see <http://avt.inl.gov/pdf/phev/chryslerreportnotes.pdf> for an explanation of all PHEV Fleet Testing Report notes. This document also includes all report changes to date.

The Chrysler RAM PHEV Fleet was designed as a demonstration program of customer duty cycles related to plug-in electric vehicles and may not necessarily demonstrate optimized fuel economy.

Vehicle fuel economy is based on customer usage and may not be representative of maximum potential fuel economy.

Trips in Charge Depleting (CD) mode

	City	Highway
Gasoline fuel economy (mpg)	23	26
DC electrical energy consumption (DC Wh/mi)	209	178
Percent of miles with internal combustion engine off	12%	3%
Average trip Aggressiveness	5.6	3.8
Average trip distance (mi)	7	17

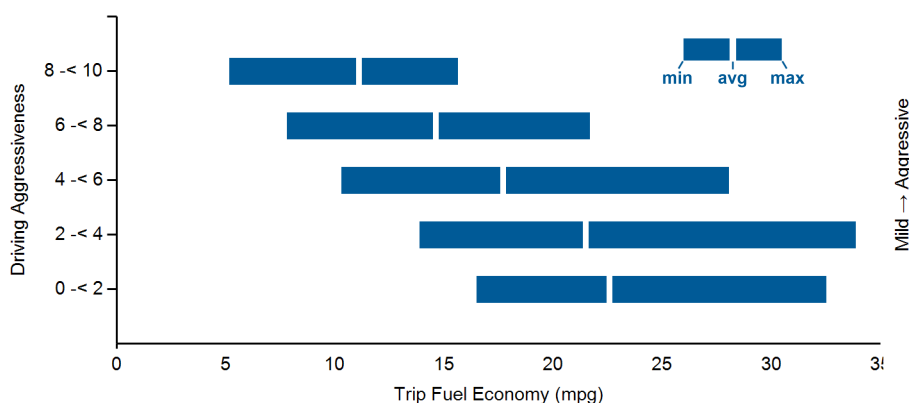
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	20	21
DC electrical energy consumption (DC Wh/mi)	76	58
Percent of miles with internal combustion engine off	8%	2%
Average trip Aggressiveness	5	3
Average trip distance (mi)	16	40

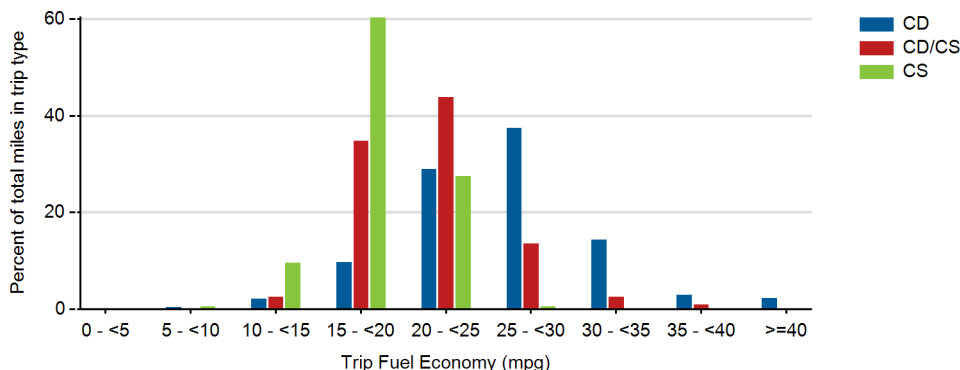
Trips in Charge Sustaining (CS) mode

Gasoline fuel economy (mpg)	17	19
Percent of miles with internal combustion engine off	8%	1%
Average trip Aggressiveness	5.6	3.1
Average trip distance (mi)	9	35

Effect of Driving Aggressiveness on Fuel Economy⁸



Trip Fuel Economy Distribution By Trip Type



Plug-in charging

Average number of charging events per vehicle per month when driven	20.77	
Average number of charging events per vehicle per day when driven	1.06	
Average distance driven between charging events (mi)	58.89	
Average number of trips between charging events	4.57	
Average time charging per charging event (hr)	1.62	
Average energy per charging event (AC kWh)	5.11	
Average charging energy per vehicle per month (AC kWh)	106.03	
Total number of charging events	3,011	
Number of charging events at Level 1 Level 2	655	2312
Total charging energy consumed (AC kWh)	15,374	
Charging energy consumed at Level 1 Level 2 (AC kWh)	2,758	12,613
Percent of total charging energy from Level 1 Level 2	18%	82%
Average time to charge from 20% to 100% SOC (hrs) Level 1 Level 2 ⁹	11.53	2.17

